Name:

at1113exam: Expand, factor, and solve quadratics (v314)

1. Expand the following expression into standard form.

$$(2x + 5)(2x - 5)$$

2. Solve the equation.

$$(5x - 9)(3x + 7) \;=\; 0$$

3. Expand the following expression into standard form.

$$(8x - 9)^2$$

4. Expand the following expression into standard form.

$$(8x + 3)(2x + 7)$$

5. Solve the equation with factoring by grouping.

$$15x^2 + 10x + 12x + 8 \;=\; 0$$

6. Factor the expression.

$$9x^2 - 25$$

7. Factor the expression.

$$x^2 - 7x + 12$$

8. Solve the equation.

$$9x^2 + 4x - 29 \;=\; 4x^2 - 3x - 5$$